

From: [Kent Thomas](#)
To: [Petersen, Celia](#)
Cc: [Ross Highsmith](#); [Maureen O'Neill](#)
Subject: Re: FW: agenda for synthetic turf panel discussion
Date: 08/11/2008 07:26 PM

Hello Celia:

I understand that you are looking for information on chemicals of concern and safe levels of COCs for developing technical specifications for field procurement. I look forward to speaking with you on Wednesday - where I also hope to learn more about potential COCs associated with synthetic turf and measurement approaches for assessing COCs. Like Ross Highsmith, I am not a risk assessor, so I can't provide the information you are looking for with regard to safe levels.

Your attachment indicated that the test method is EPA Method 6010. The current EPA Method 6010C (<http://www.epa.gov/epaoswer/hazwaste/test/pdfs/6010c.pdf>) is an analytical procedure for elements using inductively coupled plasma/atomic emission spectrometry. This method could be an appropriate analytical step for the elements on your list. But it would not be appropriate for the PAHs on the list. It is not clear what extraction or digestion methods you would specify to prepare the sample of turf material for analysis - different methods might be needed for elements and organic chemicals such as PAHs. I am interested to learn about extraction/digestion and analytical methods used by other organizations on Wednesday and to discuss our proposed approach.

Best wishes,
Kent Thomas
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▼ ["Petersen, Celia" <Celia.Petersen@parks.nyc.gov>](mailto:Celia.Petersen@parks.nyc.gov)

"Petersen, Celia"
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To: Kent Thomas/RTP/USEPA/US@EPA
cc: Ross Highsmith/RTP/USEPA/US@EPA
Subject: FW: agenda for synthetic turf panel discussion

08/08/2008 12:09 PM

Kent....I am looking for some solid information for inclusion in technical specifications for future construction of synthetic turf fields in NYC. I have attached my proposal, (based on my limited knowledge of COC's) for reasonable expectations of what COC's may be present and their respective maximum safe levels. Please let me know if the test method, COC's listed and maximum levels are reasonable. I have been unable to get an answer to this question and I am quite frustrated. Can you please review the attached document and let me know if these are reasonable safe levels? Are there COC's missing? Can I eliminate any that are not of concern? I will be at the EPA presentation on Wednesday and hope to discuss this with you then. We are building approximately 15 to 25 synthetic turf

athletic fields every year and time is of the essence. I don't mean to pressure you, but contracts for new synthetic turf athletic fields are being bid as we speak and I would like to include this information so we can be assured that the fields we are now building will not be criticized as being more expensive while creating a whole new problem. I am particularly concerned with allowable levels of lead, zinc and chromium. Any assistance is appreciated. My next step would be to see if the manufacturers can meet these levels.

Thanks, Celia M. Petersen, RLA
Director, specifications & Estimating
NYC Parks & Recreation

-----Original Message-----

From: O'Neill, Maureen@epamail.epa.gov
[mailto:O'Neill, Maureen@epamail.epa.gov]
Sent: Tuesday, August 05, 2008 4:06 PM
To: Petersen, Celia
Subject: Re: agenda for synthetic turf panel discussion

Hi Celia,

Thank you for your email. I took the liberty of forwarding it to our Office of Research and Development in Research Triangle Park. They will be at the meeting - Ross Highsmith and Kent Thomas.

I will have samples of the different types of infill materials at the meeting. We do need to spend time on what is out there now because that is what is being asked by the public. I agree we need to be looking towards the future and while I'm not clear on the level of detail we will be able to cover on these newer infills, I think it's important the issue is raised. Having you here will help to do that.

Could I please get clarification concerning Parks folks who will be here. Whomever you need is fine. I just need to have names, titles, contact info (email and phone). That would help a lot. Thank you and we look forward to seeing you next week.

Best,
Maureen

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"Petersen,

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To

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Maureen

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CC

08/05/2008 03:48

"Masand,

Alan"

PM

<Alan.Masand@parks.nyc.gov>,

"Wei,

Ruby"

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Subject

agenda for synthetic turf

panel
discussion

Maureen....I have been on the front line of researching alternative
infill
materials to use in the many synthetic turf fields currently in
design
and construction in NYC Parks. I have been assisted by Ruby Wei, an
assistant civil engineer in my office and Alan Masand, an engineering
student majoring in material science. We are already incorporating
many
of these new products in athletic fields, including EPDM, TPE, flex
sand, coconut fibers and walnut shells. Since I am a specification
writer, I could use some help with recommendations for maximum
limitations for COC's contractually allowable. I have attached a
proposed testing method and specification, which I would like
comments
on.(see attached) If I write this into the specifications, the
industry
will respond and manufacture within those limitations. I am a humble
landscape Architect trying to do the best research I can. NYC Parks
has
already moved on to specifying new products for infill. I don't need
to
dwell on what's already installed, I need to decide what to do for
the
future. If this could be added to the agenda, I would appreciate
it. I
will be attending the afternoon session, representing NYC Parks.
Thanks.
Celia Petersen, RLA
Director, Specifications & Estimating
NYC Parks Capital Projects.[attachment "Environmental paramaters.doc"
deleted by Maureen ONeill/R2/USEPA/US]
[attachment "Environmental parameters.docx" deleted by Kent
Thomas/RTP/USEPA/US]